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ABSTRACT

In June 1993, the Indiana Commission for Higher Education approved a model for Technical Certificate and Associate of Applied Science Apprenticeship Technology (AT) programs at Ivy Tech State College. By November 1997, 30 AT programs had been authorized at 12 different sites around the state. These programs include nine for bricklayers, five for carpenters, five for electricians, four for millwrights, four for plumbers and pipefitters, and three for sheet metal workers. Over the 4 years, both headcount and full-time equivalent (FTE) enrollments in the AT programs increased steadily, with headcounts increasing from 583 in fiscal year (FY)1994 to 759 in FY 1995 and 1,515 in FY 1996. Similarly, FTE enrollments rose from 251 in FY 1994 to 378 in FY 1995 and 730 in FY 1996. For FY 1997, AT headcount enrollment was estimated at 2,277, and FTE enrollment at 1,071. Sixty-one degrees were conferred through the AT program in FY 1996, compared with 15 estimated for FY 1997. Appendixes present three tables of 1994-97 data on headcount enrollments, FTE enrollments, and degrees conferred by site and program. (BCY)

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ED 413 959

APPRENTICESHIP TECHNOLOGY PROGRAMS AT IVY TECH STATE COLLEGE:

1997 PROGRESS REPORT*

November 4, 1997

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Sites and Trades for Which Programs Are Authorized

At its June 1993 meeting, the Commission for Higher Education approved a *Statewide Model for Technical Certificate and Associate of Applied Science Apprenticeship Technology Programs* for Ivy Tech State College. Since that time, the Commission has authorized 30 Apprenticeship Technology programs at twelve different sites around the state (see Table 1).

Table 1

SITES AT WHICH
APPRENTICESHIP TECHNOLOGY PROGRAMS
HAVE BEEN AUTHORIZED

Site	Number of Programs
South Bend	5
Indianapolis	5
Fort Wayne	4
Lafayette	4
Gary	3
Terre Haute	2
Evansville	2
East Chicago	1
Kokomo	1
Muncie	1
Columbus	1
Tell City	1

Two of the twelve sites have five Apprenticeship Technology programs each (South Bend and Indianapolis) and two other site have four programs each (Fort Wayne and Lafayette). At Gary three Apprenticeship Technology programs were available, while two programs were available at each of two sites (Terre Haute and Evansville). At the five remaining sites, only one Apprenticeship Technology program was available.

The thirty Apprenticeship Technology programs have been authorized in six different building or construction trades (see Table 2).

Table 2

BUILDING OR CONSTRUCTION TRADES IN WHICH APPRENTICESHIP TECHNOLOGY PROGRAMS HAVE BEEN AUTHORIZED

Trade	Number of Programs
Bricklayers	9
Carpenters	5
Electricians	5
Millwrights	4
Plumbers and Pipefitters	4
Sheet Metal Workers	3

More Apprenticeship Technology programs (nine) for bricklayers have been established than in any other building trade. Five Apprenticeship Technology programs have been authorized for carpenters and electricians, while four programs have been authorized for millwrights and plumbers and pipefitters; three programs are presently authorized for sheet metal workers.

Enrollments and Degrees Conferred

Headcount and FTE enrollments for the 30 Apprenticeship Technology programs have increased steadily over the past four years (see Table 3; for detailed, site-by-site data on headcount and FTE enrollment and degrees conferred, see Appendices 1-3, respectively).

Table 3

ENROLLMENTS AND DEGREES CONFERRED IN IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS

	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	(Projected) Steady State
Headcount	583	759	1,515	2,277	2,401
FTEs	251	378	720	1,071	1,155
Degrees	0	0	61	15	394

The College reports the statewide FY1997 headcount enrollment in Apprenticeship Technology programs at 2,277 students, which represents 95 percent of the projected steady state enrollment of 2,401 for the current set of Apprenticeship Technology programs that the Commission has authorized in the building and construction trades. At this point, it seems unlikely that Apprenticeship Technology programs will be developed in the remaining building and construction trades, such as painters and heavy equipment operators. Assuming that the 2,401 projected steady state will remain stable, it can be said that the Ivy Tech Apprenticeship Technology programs will enroll approximately 75-85 percent of the estimated 3,500-4,000 apprentices in Indiana's building and construction trades.

Ivy Tech is presently contemplating how the state's estimated 3,500-4,000 apprentices in the industrial trades might be served by the College. However, at this point the College has not reached any conclusions about how this might be done.

General Education and Technical Components of the Curriculum: Previous Understandings

In June 1993, the Commission for Higher Education approved a *Statewide Model for Technical Certificate and Associate of Applied Science Apprenticeship Technology Degree Programs at Indiana Vocational Technical College*. Approval of the *Statewide Model* was premised on the Commission's understanding that "general education courses in the Apprenticeship Technology curriculum will be drawn from the regular inventory of College-wide general courses that must be taken by all IVTC associate degree students. Somewhere between 15-18 credit hours, or between 20-25 percent of the A.A.S. curriculum, will consist of general education."

In the Commission's September 1996 *Progress Report on Ivy Tech State College Apprenticeship Technology Programs*, it was reported that "the College is still engaged in a transition period, during which the material covered in the College's standard general education courses and related material included in the national apprenticeship curricula used in Indiana will become increasingly integrated. The general education material is close to being fully integrated into the apprenticeship curriculum for electricians, and to a lesser extent in the curricula for the other trades. The Commission has been assured that the College is working with the unions to ensure a full transition in the near future."

Commission approval of *Statewide Model* in 1993 was also premised on the understanding that "the College-wide technical courses will typically be drawn from the existing core of technical courses each IVTC associate degree major is required to take. The technical core will vary depending upon the program area and which Division of the College ... offers the student's program. College-wide technical courses may total 14-23 credit hours or may comprise roughly 20-30 percent of the associate degree curriculum."

Modifications to the Curriculum

[Section to be added -- presently under discussion]

Appendix 1

HEADCOUNT ENROLLMENT IN THE IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS

Draft - 11/6/97

	Site	Apprenticeship Trade	Authorization Date	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	*(Projected) Size When Fully Implemented*
1	Gary	Sheet Metal Workers	June, 1995	*	*	84	83	*85*
2	Gary	Carpenters	September, 1996	*	*	*	165	*150*
3	Gary	Millwrights	September, 1996	*	*	*	40	*40*
	Subtotal						288	*275*
4	East Chicago	Bricklayers	September, 1996	*	*	*	34	*90*
5	South Bend	Carpenters	June, 1995	*	*	129	178	*130*
6	South Bend	Electricians	June, 1995	*	*	109	108	*109*
7	South Bend	Plumbers and Pipefitters	June, 1995	*	*	42	53	*42*
8	South Bend	Bricklayers	September, 1996	*	*	*	60	*120*
9	South Bend	Millwrights	September, 1996	*	*	*	39	*40*
	Subtotal						438	*441*
10	Fort Wayne	Electricians	June, 1995	*	*	52	67	*52*
11	Fort Wayne	Plumbers and Pipefitters	June, 1995	*	*	74	65	*73*
12	Fort Wayne	Bricklayers	September, 1996	*	*	*	18	*24*
13	Fort Wayne	Sheet Metal Workers	September, 1996	*	*	*	27	*28*
	Subtotal						177	*177*
14	Lafayette	Plumbers and Pipefitters**	June, 1993	**	**	**	**	**
15	Lafayette	Carpenters	June, 1995	*	*	40	43	*40*
16	Lafayette	Electricians	June, 1995	*	*	73	74	*73*
17	Lafayette	Bricklayers	September, 1996	*	*	*	23	*40*
	Subtotal						140	*153*
18	Kokomo	Electricians	September, 1996	*	*	*	47	*40*
19	Muncie	Bricklayers	September, 1996	*	*	*	20	*32*

Note: Data is for both A.A.S. and T.C. programs, although most students are in the A.A.S. program

*Not applicable

**Lafayette plumbers and pipefitters have been reported under Terre Haute

Appendix 1

HEADCOUNT ENROLLMENT IN THE IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS

Draft - 11/6/97

	Site	Apprenticeship Trade	Authorization Date	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	*(Projected) Size When Fully Implemented*
20	Terre Haute	Plumbers and Pipefitters*	June, 1993	152	138	158	145	*160*
21	Terre Haute	Bricklayers	September, 1996				*	*12*
	Subtotal						145	*172*
22	Indianapolis	Carpenters	June, 1993	149	214	187	221	*215*
23	Indianapolis	Electricians	June, 1993	141	199	265	262	*264*
24	Indianapolis	Sheet Metal Workers	June, 1993	0	208	222	221	*223*
25	Indianapolis	Bricklayers	September, 1996	*	*	*	61	*80*
26	Indianapolis	Millwrights	September, 1996	*	*	*	31	*35*
	Subtotal						796	*817*
27	Columbus	Bricklayers	September, 1996	*	*	*	12	*24*
28	Tell City	Bricklayers	September, 1996	*	*	*	25	*50*
29	Evansville	Carpenters	June, 1995	*	*	80	119	*95*
30	Evansville	Millwrights	September, 1996	*	*	*	36	*35*
	Subtotal						155	*130*
		TOTAL		583	759	1,515	2,277	*2,401*

Note: Data is for both A.A.S. and T.C. programs, although most students are in the A.A.S. program

*Not applicable

**Lafayette plumbers and pipefitters have been reported under Terre Haute

Appendix 2

FTE ENROLLMENT IN THE IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS

Draft - 11/6/97

	Site	Apprenticeship Trade	Authorization Date	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	*(Projected) Size When Fully Implemented*
1	Gary	Sheet Metal Workers	June, 1995	*	*	40	37	*40*
2	Gary	Millwrights	September, 1996	*	*	*	22	*18*
3	Gary	Carpenters	September, 1996	*	*	*	93	*71*
	Subtotal						152	*129*
4	East Chicago	Bricklayers	September, 1996	*	*	*	9	*45*
5	South Bend	Carpenters	June, 1995	*	*	44	69	*44*
6	South Bend	Electricians	June, 1995	*	*	46	45	*46*
7	South Bend	Plumbers and Pipefitters	June, 1995	*	*	18	22	*18*
8	South Bend	Bricklayers	September, 1996	*	*	*	28	*60*
9	South Bend	Millwrights	September, 1996	*	*	*	19	*20*
	Subtotal						183	*188*
10	Fort Wayne	Electricians	June, 1995	*	*	19	25	*19*
11	Fort Wayne	Plumbers and Pipefitters	June, 1995	*	*	30	33	*32*
12	Fort Wayne	Bricklayers	September, 1996	*	*	*	7	*12*
13	Fort Wayne	Sheet Metal Workers	September, 1996	*	*	*	14	*15*
	Subtotal						79	*78*
14	Lafayette	Plumbers and Pipefitters**	June, 1993	**	**	**	**	**
15	Lafayette	Carpenters	June, 1995	*	*	19	23	*20*
16	Lafayette	Electricians	June, 1995	*	*	33	33	*33*
17	Lafayette	Bricklayers	September, 1996	*	*	*	10	*20*
	Subtotal						66	*73*
18	Kokomo	Electricians	September, 1996	*	*	*	20	*20*
19	Muncie	Bricklayers	September, 1996	*	*	*	10	*16*

Note: Data is for both A.A.S. and T.C. programs, although most students are in the A.A.S. program

*Not applicable

**Lafayette plumbers and pipefitters have been reported under Terre Haute

Appendix 2

FTE ENROLLMENT IN THE IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS

Draft - 11/6/97

	Site	Apprenticeship Trade	Authorization Date	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	*(Projected) Size When Fully Implemented*
20	Terre Haute	Plumbers and Pipefitters**	June, 1993	78	80	107	81	*108*
21	Terre Haute	Bricklayers	September, 1996	*	*	*	*	*6*
	Subtotal						81	*114*
22	Indianapolis	Carpenters	June, 1993	90	116	107	108	*117*
23	Indianapolis	Electricians	June, 1993	83	81	116	122	*116*
24	Indianapolis	Sheet Metal Workers	June, 1993	0	101	103	101	*103*
25	Indianapolis	Bricklayers	September, 1996	*	*	*	25	*36*
26	Indianapolis	Millwrights	September, 1996	*	*	*	19	*17*
	Subtotal						375	389
27	Columbus	Bricklayers	September, 1996	*	*	*	5	*12*
28	Tell City	Bricklayers	September, 1996	*	*	*	10	*26*
29	Evansville	Carpenters	June, 1995	*	*	38	60	*47*
30	Evansville	Millwrights	September, 1996	*	*	*	21	*18*
	Subtotal						81	*65*
		TOTAL		251	378	720	1,071	*1,155*

Note: Data is for both A.A.S. and T.C. programs, although most students are in the A.A.S. program

*Not applicable

**Lafayette plumbers and pipefitters have been reported under Terre Haute

Appendix 3

DEGREES CONFERRED IN THE IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS

Draft - 11/6/97

	Site	Apprenticeship Trade	Authorization Date	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	*(Projected) Size When Fully Implemented*
1	Gary	Sheet Metal Workers	June, 1995	•	•	0	•	*18*
2	Gary	Millwrights	September, 1996	•	•	•	•	*10*
3	Gary	Carpenters	September, 1996	•	•	•	•	*37*
	Subtotal							*65*
4	East Chicago	Bricklayers	September, 1996	•	•	•	•	*11*
5	South Bend	Carpenters	June, 1995	•	•	0	•	*11*
6	South Bend	Electricians	June, 1995	•	•	0	•	*16*
7	South Bend	Plumbers and Pipefitters	June, 1995	•	•	0	•	*9*
8	South Bend	Bricklayers	September, 1996	•	•	•	•	*15*
9	South Bend	Millwrights	September, 1996	•	•	•	•	*10*
	Subtotal							*61*
10	Fort Wayne	Electricians	June, 1995	•	•	0	•	*8*
11	Fort Wayne	Plumbers and Pipefitters	June, 1995	•	•	0	1	*13*
12	Fort Wayne	Bricklayers	September, 1996	•	•	•	•	*2*
13	Fort Wayne	Sheet Metal Workers	September, 1996	•	•	•	•	*7*
	Subtotal						1	*30*
14	Lafayette	Plumbers and Pipefitters**	June, 1993	••	••	••	•	••
15	Lafayette	Carpenters	June, 1995	•	•	0	•	*7*
16	Lafayette	Electricians	June, 1995	•	•	0	•	*17*
17	Lafayette	Bricklayers	September, 1996	•	•	•	•	*5*
	Subtotal							*29*
18	Kokomo	Electricians	September, 1996	•	•	•	•	*20*
19	Muncie	Bricklayers	September, 1996	•	•	•	•	*4*

Note: Data is for both A.A.S. and T.C. programs, although most students are in the A.A.S. program

*Not applicable

**Lafayette plumbers and pipefitters have been reported under Terre Haute

Appendix 3

DEGREES CONFERRED IN THE IVY TECH APPRENTICESHIP TECHNOLOGY PROGRAMS
Draft - 11/6/97

	Site	Apprenticeship Trade	Authorization Date	(Actual) FY1994	(Actual) FY1995	(Actual) FY1996	(Estimated) FY1997	*(Projected) Size When Fully Implemented*
20	Terre Haute	Plumbers and Pipefitters**	June, 1993	0	0	0	*	*35*
21	Terre Haute	Bricklayers	September, 1996	*	*	*	*	*1*
	Subtotal							*36*
22	Indianapolis	Carpenters	June, 1993	0	0	0	2	*39*
23	Indianapolis	Electricians	June, 1993	0	0	50	2	*26*
24	Indianapolis	Sheet Metal Workers	June, 1993	0	0	11	10	*25*
25	Indianapolis	Bricklayers	September, 1996	*	*	*	*	*10*
26	Indianapolis	Millwrights	September, 1996	*	*	*	*	*9*
	Subtotal						14	109
27	Columbus	Bricklayers	September, 1996	*	*	*	*	*3*
28	Tell City	Bricklayers	September, 1996	*	*	*	*	*6*
29	Evansville	Carpenters	June, 1995	*	*	0	*	*11*
30	Evansville	Millwrights	September, 1996	*	*	*	*	*9*
	Subtotal							*20*
		TOTAL		0	0	61	15	*394*

Note: Data is for both A.A.S. and T.C. programs, although most students are in the A.A.S. program
*Not applicable
**Lafayette plumbers and pipefitters have been reported under Terre Haute